

4.2.E. 0604000205 (Duck River).

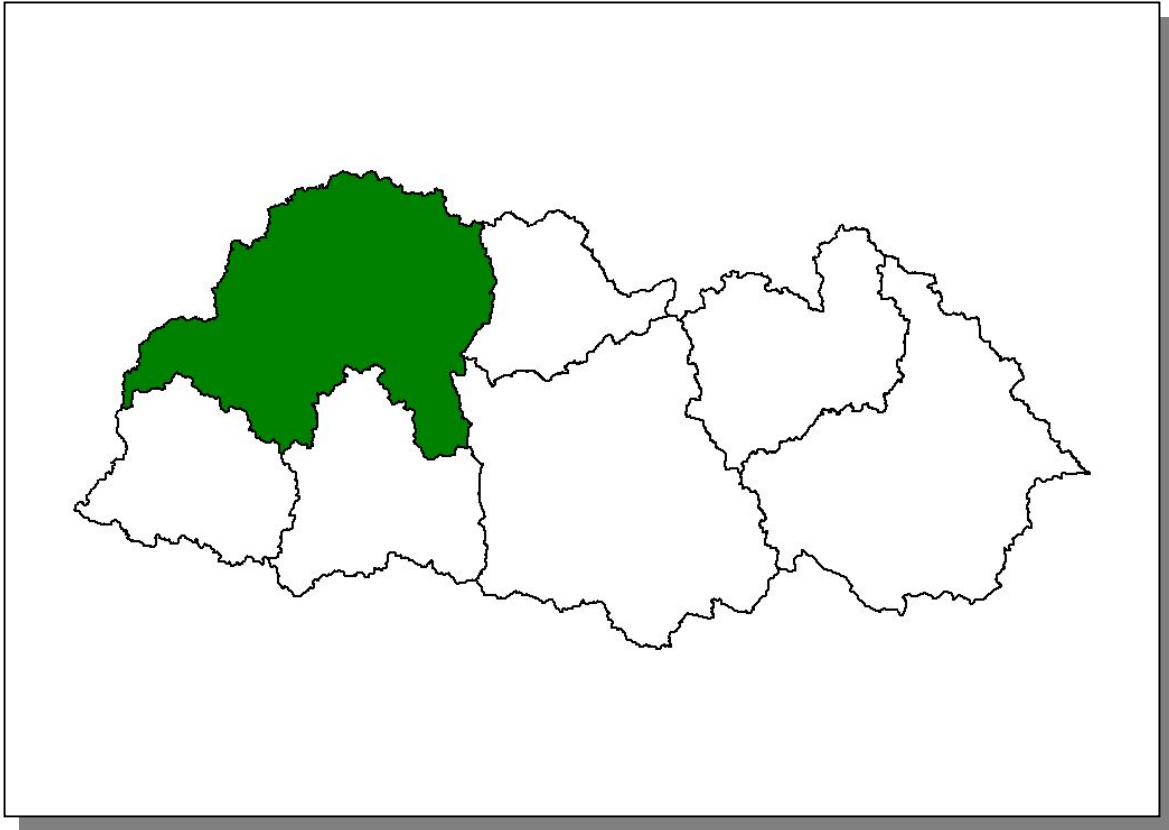


Figure 4-49. Location of Subwatershed 0604000205. All Upper Duck HUC-10 subwatershed boundaries are shown for reference.

4.2.E.i. General Description.

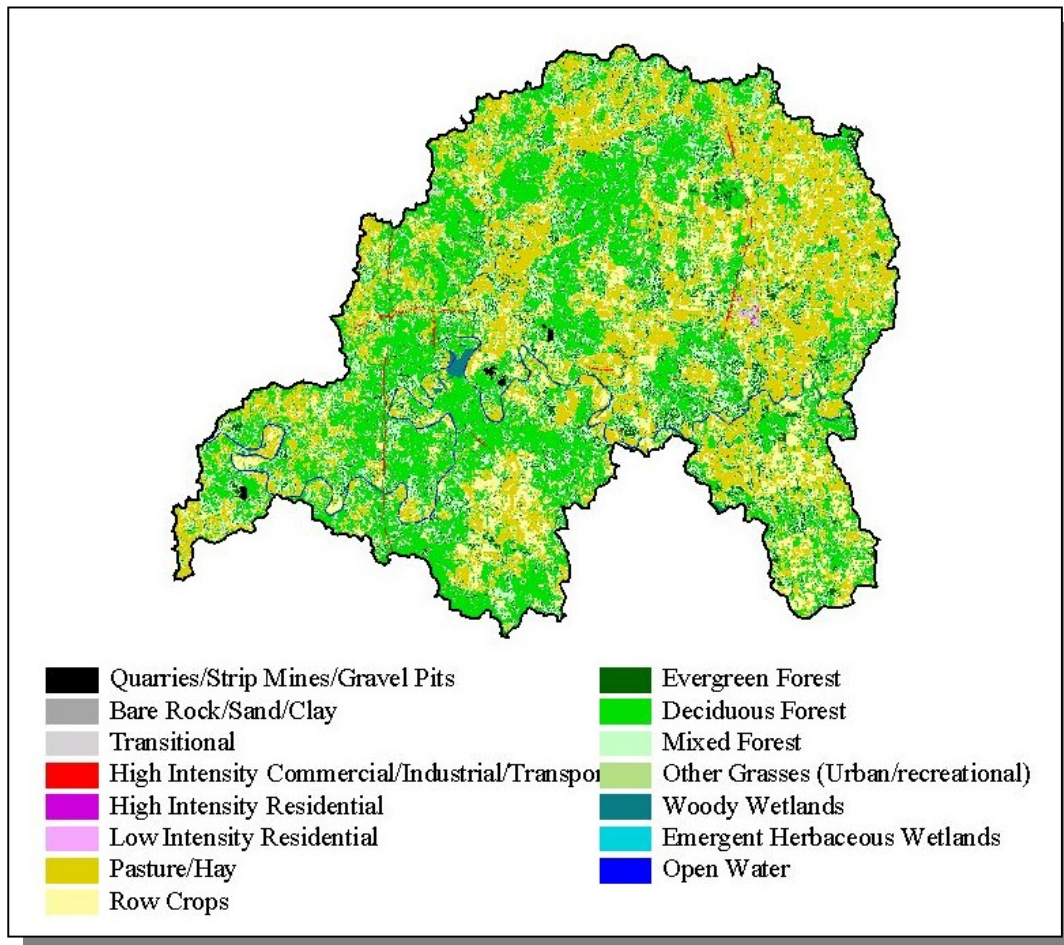


Figure 4-50. Illustration of Land Use Distribution in Subwatershed 0604000205.

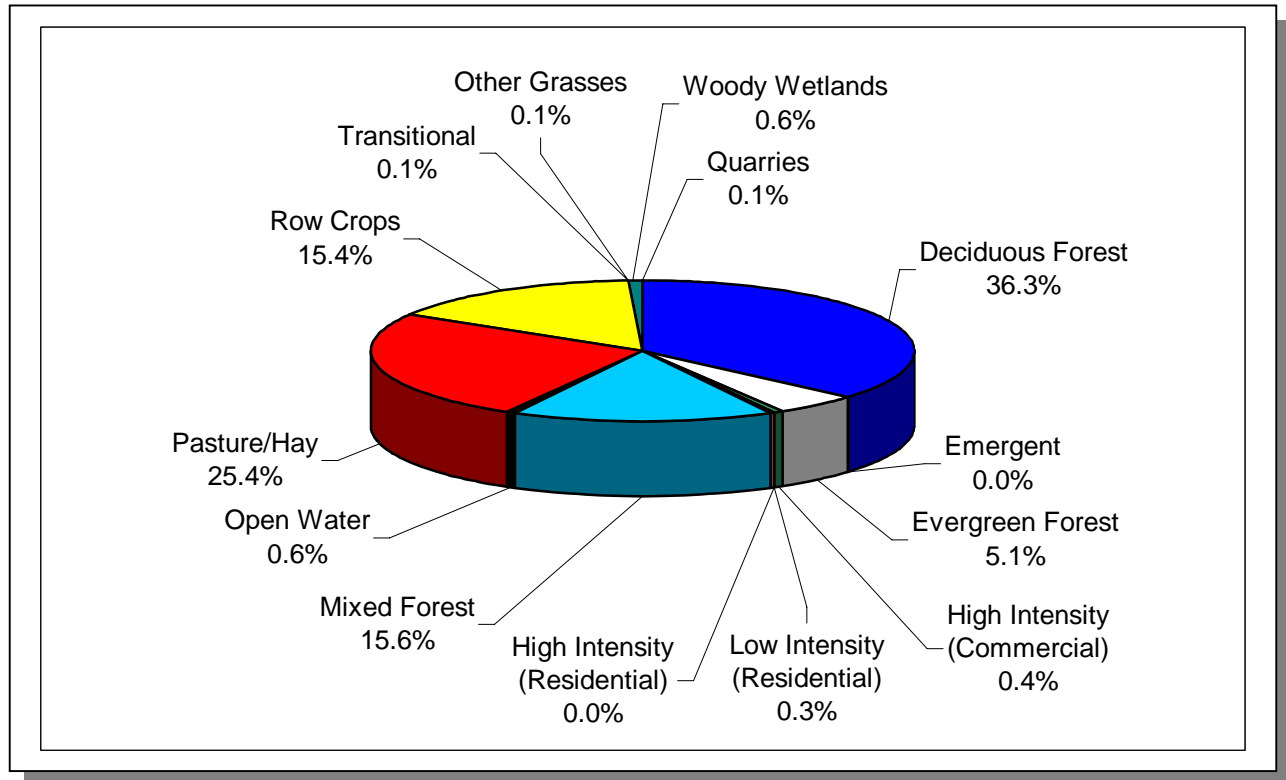


Figure 4-51. Land Use Distribution in Subwatershed 0604000205. More information is provided in Appendix IV.

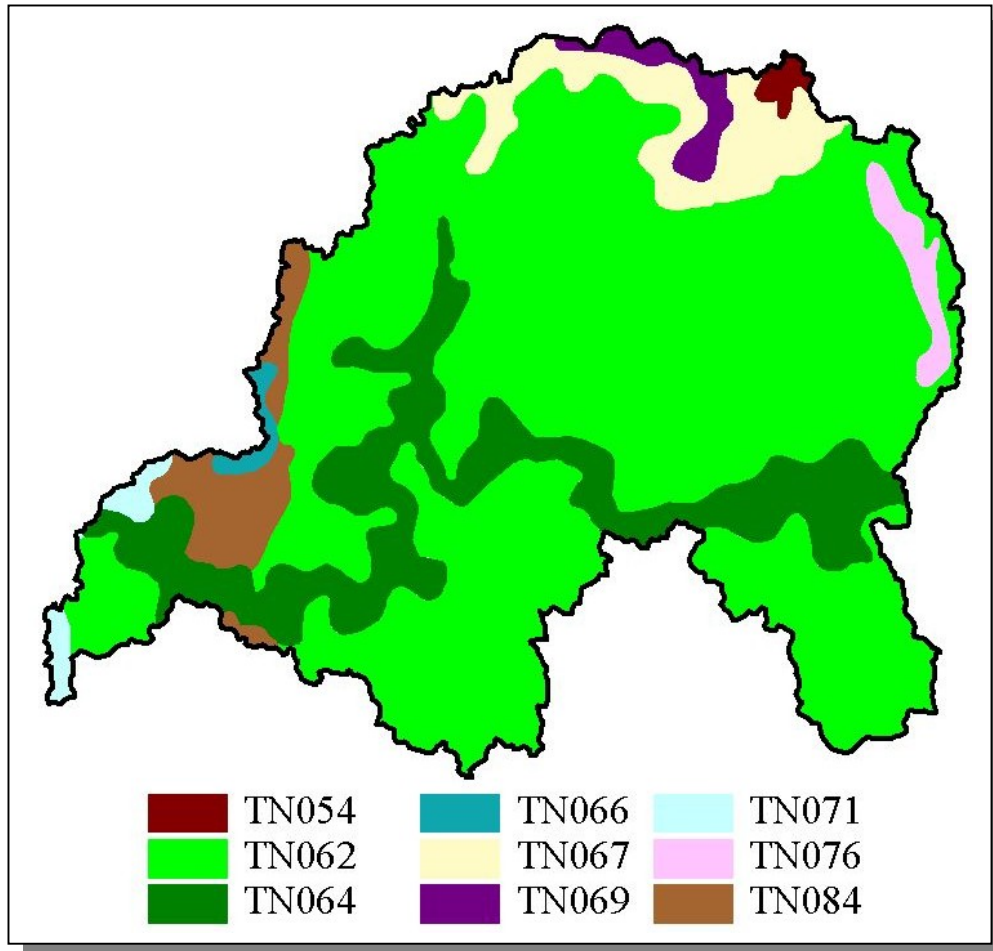


Figure 4-52. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000205.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hr)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN054	0.00	C	3.04	4.84	Loam	0.32
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN066	0.00	B	2.62	4.75	Loam	0.28
TN067	2.00	C	2.69	5.51	Silty Loam	0.35
TN069	0.00	C	2.06	5.36	Loam	0.34
TN071	0.00	C	2.37	5.70	Silty Loam	0.33
TN076	28.00	C	0.73	6.26	Silty Clayey Loam	0.33
TN084	0.00	C	1.80	4.99	Silty Loam	0.28

Table 4-31. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000205. More information is provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-1997)
	1990	1997	2000		1990	1997	2000	
Bedford	30,411	34,203	37,586	2.41	733	825	906	23.6
Marshall	21,539	25,687	26,767	13.37	7,188	8,573	8,933	24.3
Maury	54,812	68,268	69,498	14.86	8,145	10,144	10,327	26.8
Rutherford	118,570	159,987	182,023	0.6	717	968	1,101	53.6
Williamson	81,021	111,453	126,638	2.42	1,961	2,698	3,066	56.3
Totals	306,353	399,598	442,512		18,744	23,208	24,333	29.8

Table 4-32. Population Estimates in Subwatershed 0604000205.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Chapel Hill	Marshall	833	346	336	8	2
Columbia	Maury	28,583	12,142	11,303	826	13
Eagleville	Rutherford	491	220	5	211	4
Totals		29,907	12,708	11,644	1,045	19

Table 4-33. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0604000205.

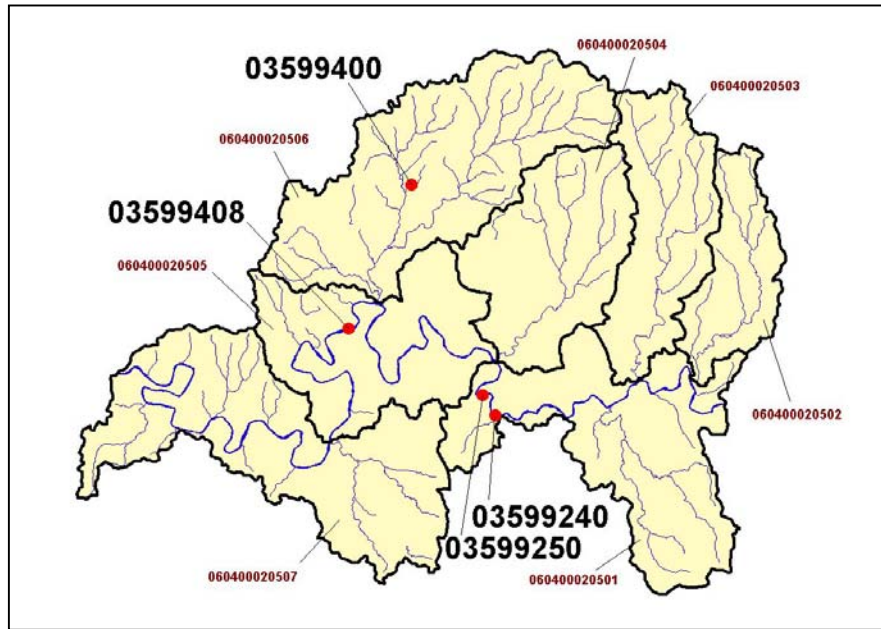


Figure 4-53. Location of Historical Streamflow Data Collection Sites in Subwatershed 0604000205. Subwatershed 060400020501, 060400020502, 060400020503, 060400020504, 060400020505, 060400020506, and 060400020507 boundaries are shown for reference. More information is provided in Appendix IV.

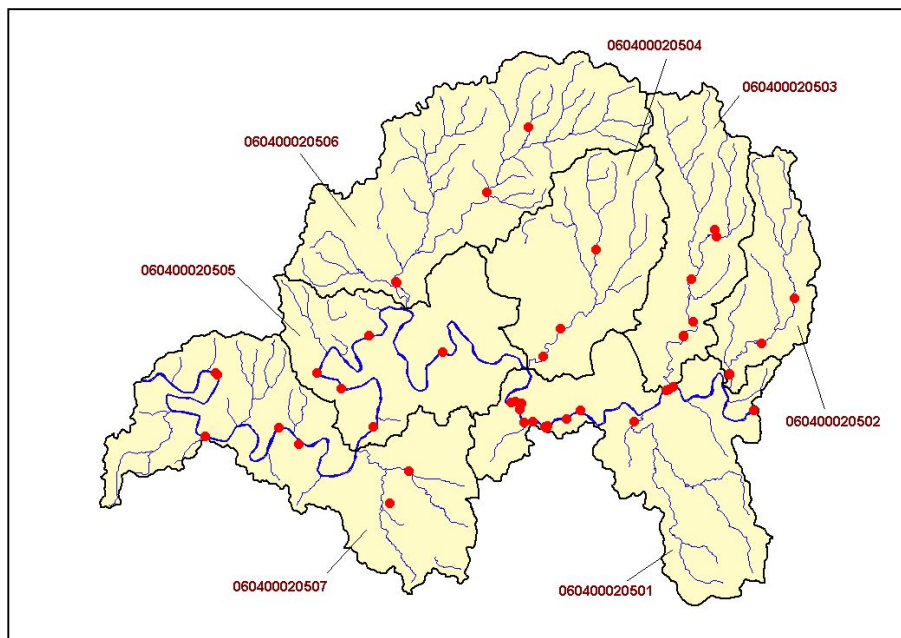


Figure 4-54. Location of STORET Monitoring Sites in Subwatershed 0604000205. Subwatershed 060400020501, 060400020502, 060400020503, 060400020504, 060400020505, 060400020506, and 060400020507 boundaries are shown for reference. More information, including site names and locations, is provided in Appendix IV.

4.2.E.ii. Point Source Contributions.

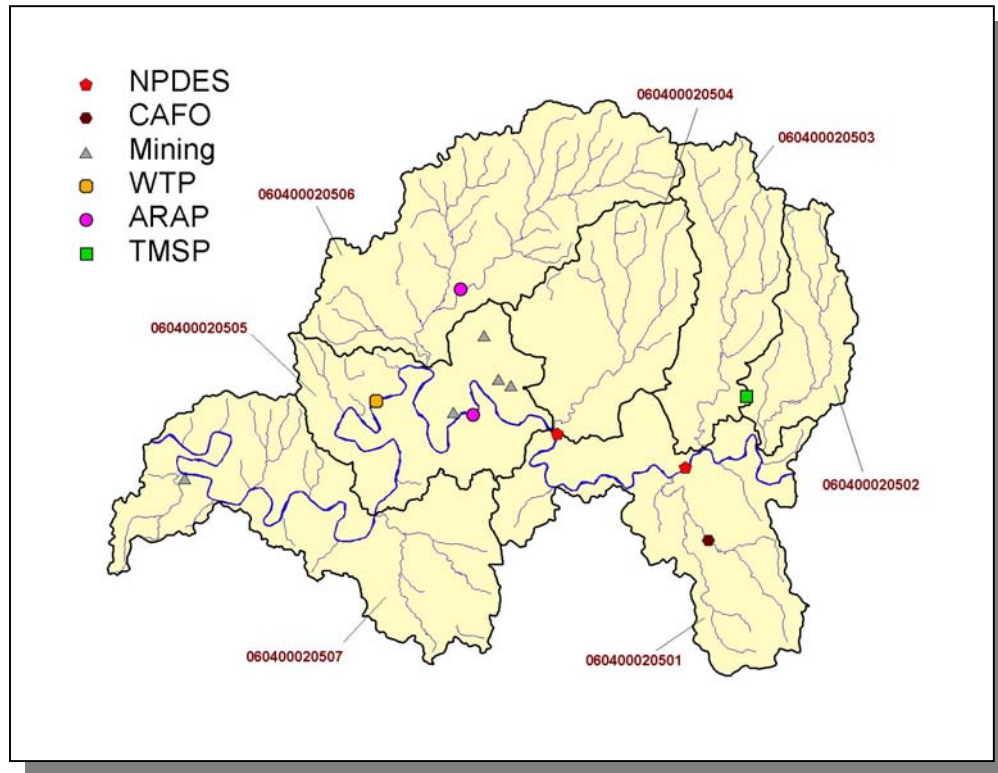


Figure 4-55. Location of Active Point Source Facilities in Subwatershed 0604000205. Subwatershed 060400020501, 060400020502, 060400020503, 060400020504, 060400020505, 060400020506, and 060400020507 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

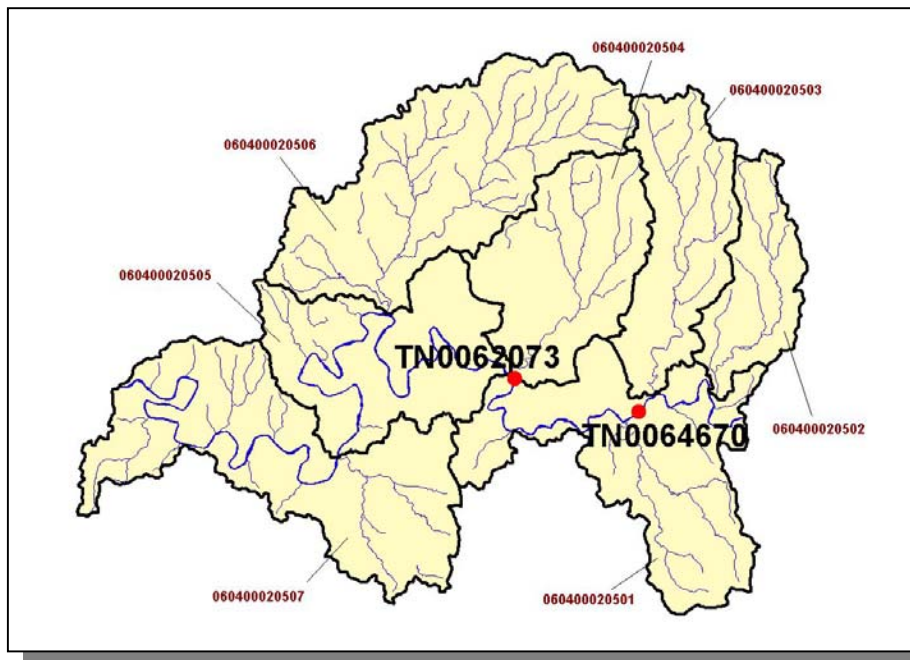


Figure 4-56. Location of NPDES Facilities in Subwatershed 0604000205. Subwatershed 060400020501, 060400020502, 060400020503, 060400020504, 060400020505, 060400020506, and 060400020507 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-57. Location of Concentrated Animal Feeding Operations (CAFO) in Subwatershed 0604000205. Subwatershed 060400020501, 060400020502, 060400020503, 060400020504, 060400020505, 060400020506, and 060400020507 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

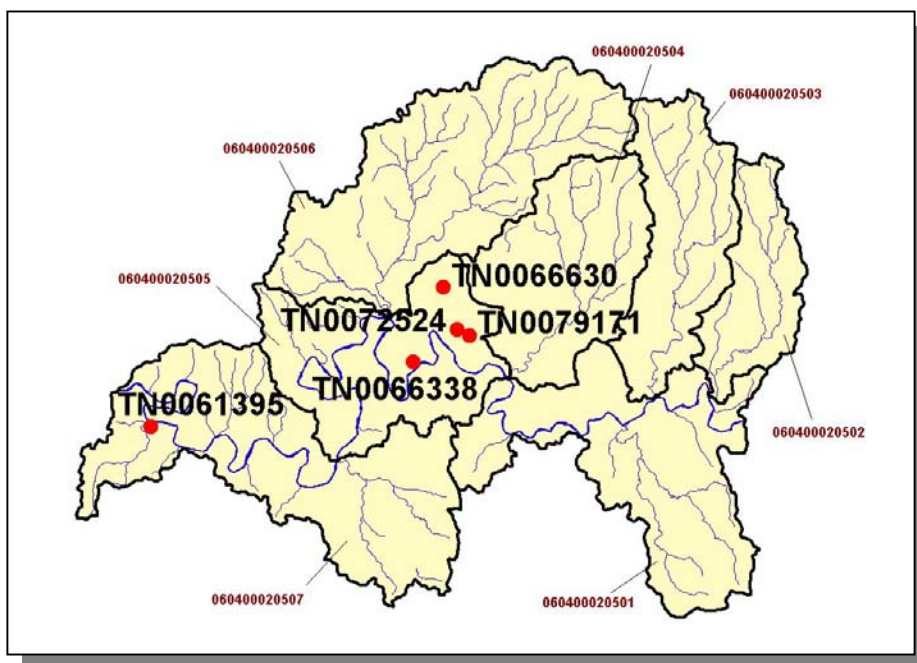


Figure 4-58. Location of Active Mining Facilities in Subwatershed 0604000205. Subwatershed 060400020501, 060400020502, 060400020503, 060400020504, 060400020505, 060400020506, and 060400020507 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-59. Location of Water Treatment Plants in Subwatershed 0604000205. Subwatershed 060400020501, 060400020502, 060400020503, 060400020504, 060400020505, 060400020506, and 060400020507 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-60. Location of ARAP Sites (Individual Permits) in Subwatershed 0604000205. Subwatershed 060400020501, 060400020502, 060400020503, 060400020504, 060400020505, 060400020506, and 060400020507 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-61. Location of TMSP Facilities in Subwatershed 0604000205. Subwatershed 060400020501, 060400020502, 060400020503, 060400020504, 060400020505, 060400020506, and 060400020507 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

4.2.E.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Milk Cow	Cattle	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
13,283	2,135	28,226	36	636,949	1,641	198

Table 4-34. Summary of Livestock Count Estimates in Subwatershed 0604000205. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Bedford	74.6	74.6	0.5	1.3

Table 4-35. Forest Acreage and Annual Removal Rates (1987-1994) in Subwatershed 0604000205.

CROPS	TONS/ACRE/YEAR
Legumes (Pastureland)	0.29
Grass (Pastureland)	0.71
Grass (Hayland)	0.36
Legumes (Hayland)	0.62
Legumes, Grass (Hayland)	1.37
Grass, Forbs, Legumes (Mixed Pasture)	0.47
Forest Land (Not Grazed)	0.00
Forest Land (Grazed)	0.00
Corn (Row Crops)	7.07
Cotton (Row Crops)	4.79
Soybeans (Row Crops)	6.39
Tobacco (Row Crops)	6.75
All Other Row Crops	11.45
Wheat (Close-Grown Cropland)	7.00
Summer Fallow (Other Cropland)	8.40
Other Cropland not Planted	2.30
Berry (Horticulture)	0.47
Conservation Reserve Program Lands	0.28
Non-Agricultural Land Use	0.00
Other Land in Farms	0.06
Farmsteads and Ranch Headquarters	0.22

Table 4-36. Annual Estimated Soil Loss in Subwatershed 0604000205.